PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

Aaron Bond

First Inventor

Attorney Docket No.

METHOD OF FABRICATING A MONOLITHIC EXPANDED BEAM MODE ELECTROABSORPTION MODULATOR Title

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Express Mail Label No. EL 743 541 299 US

TNT-100US

APPLICATION ELEMENTS	ASSISTANT Commissioner for Patents ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231				
See MPEP chapter 600 concerning utility patent application contents.					
Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)	Computer Program (Appendix)				
2. Applicant claims small entity status. See 37 CFR 1.27.	8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF)				
3. Specification [Total Pages 28] (preferred arrangement set forth below - Descriptive title of the Invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D	 a.				
 Reference to sequence listing, a table, or a computer program listing appendix 	ACCOMPANYING APPLICATIONS PARTS				
or a computer program issuing appendix - Background of the Invention					
- Brief Summary of the Invention	9. Assignment Papers (cover sheet & document(s))				
 Brief Description of the Drawings (if filed) Detailed Description Claim(s) 	10. ☐ 37 C.F.R.§3.73(b) Statement ☐ Power of (when there is an assignee) Attorney				
- Abstract of the Disclosure	11. English Translation Document (if applicable)				
4. Drawing(s) (35 U.S.C.113) [Total Sheets 17] 5. Oath or Declaration [Total Pages 3]	12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations				
a. Newly executed (original or copy)	13. Preliminary Amendment				
b. Copy from a prior application (37 CFR 1.63 (d)) (for a continuation/divisional with Box 18 completed)	14. ☑ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)				
 i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)				
1.63(d)(2) and 1.33(b).	16 Nonpublication Request under 35 U.S.C. 122				
c. Unexecuted Declaration 6. Application Data Sheet. See 37 CFR 1.76	(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.				
	17. Other: Check Certificate of Express Mail				
18. If a CONTINUING APPLICATION, check appropriate box, and supply	the requisite information below and in a preliminary amendment,				
or in an Application Data Sheet under 37 CFR 1.76:					
☐ Continuation ☐ Divisional ☐ Continuation-in-part					
Prior application information Examiner	Group / Art Unit:				
For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of under Box 5b, is considered a part of the disclosure of the accompany reference. The incorporation can only be relied upon when a portion h					
	DENCE ADDRESS				
	or 🗆 Correspondence address below				
☑ Customer Number or Bar Code Label (insert Customer No. ② A	talif Parcode label here)				
Name					
	ON THE PROPERTY OF THE PROPERT				
Address					
City State	Zip Code				
Country Telephone	Fax				
Name (Print/Type) Lowell L. Carson	Registration No. (Attorney/Agent) 48,548				
Signature	Date January 25, 2002				

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC

PTO/SB/17 (10-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

Complete if Known				
Application Number	To Be Assigned			
Filing Date	Herewith			
First Named Inventor	Aaron Bond et al.			
Examiner Name				
Group / Art Unit				

TOTAL AMOUNT OF PAYMENT (\$) 578	Attorn	ey Docke	t No.	TNT-	100US	
METHOD OF PAYMENT (check one)	'.			FEE C	ALCULATION (continued)	
The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:	3. ADD	ITIONAL Large Entity Fee	FEES Fee	Small Entity Fee	Fee Description	Fee
Deposit Account 18-0350	Code	(\$)	Code	(\$)		Paid
Number	105	130	205	65	Surcharge - late filing fee or oath	
	127	50	227	25	Surcharge - late provisional filing fee or cover sheet.	
Deposit Account Ratner & Prestia	139	130	139	130	Non-English specification	
Name	147	2,520	147	2,520	For filing a request for reexamination	
☑ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
Applicant claims small entity status. See 37 CFR 1.27	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
2. Payment Enclosed:	115	110	215	55	Extension for reply within first month	
⊠ Check ☐ Credit card ☐ Money ☐ Other Order	116	400	216	200	Extension for reply within second month	
FEE CALCULATION	117	920	217	460	Extension for reply within third month	
1. BASIC FILING FEE	118	1,440	218	720	Extension for reply within fourth month	
Large Entity Small Entity	128	1,960	228	980	Extension for reply within fifth month	
Fee Fee Fee Fee Description	119	320	219	160	Notice of Appeal	
Code (\$) Code (\$) Fee Paid	120	320	220	160	Filing a brief in support of an appeal	-
101 740 201 370 Utility filing fee 370	121	280	221	140	Request for oral hearing	
106 330 206 165 Design filing fee 107 510 207 255 Plant filing fee	138	1,510	138	1,510	Petition to institute a public use proceeding	
108 740 208 370 Reissue filing fee	140	110	240	55	Petition to revive – unavoidable	
114 160 214 80 Provisional filling fee	141	1,280	241	640	Petition to revive – unintentional	<u> </u>
SUBTOTAL (1) (\$) 370	142	1,280	242	640	Utility issue fee (or reissue)	—
305101AL(1) (4)-010	143	460	243	230 310	Design issue fee Plant issue fee	
2. EXTRA CLAIM FEES	144	620	244	130	Petitions to the Commissioner	
Extra Fee from Fee Claims below Paid	122	130	122		Petitions to the Commissional	<u> </u>
otal Claims 14 -20** = 0 X = 0	123	150	123	150	applications Submission of Information Disclosure	
dependent aims 7 -3** = 4 X 42 = 168	126	180	126	180	Stmt Recording each patent assignment	
fultiple x = 0	581	40	581	40	per property (times number of properties)	40
Large Entity Small Entity Fee Fee Fee Fee Fee Description	146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
Code (\$) Code (\$) 103 18 203 9 Claims in excess of 20	149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
102 84 202 42 Independent claims in excess of 3 104 280 204 140 Multiple dependent claim, if not paid	179	740	279	370	Request for Continued Examination (RCE)	
104 280 204 140 Multiple dependent claim, if not paid 109 84 209 42 ** Reissue independent claims over original patent	169	900	169	900	Request for expedited examination of a design application	
110 18 210 9 Reissue claims in excess of 20 and over original patent						
SUBTOTAL (2) (\$) 168		fee (speci				
**or number previously paid, if greater, For Reissues, see above	*Red	uced by B	asic Fili	ng Fee F	Paid SUBTOTAL (3) (\$) 40	
	_					

Complete (if applicable) SUBMITTED BY 610-407-0700 48,548 Telephone Name (Print/Type) Lowell L. Carson Registration No. Attorney/Agent) January 25, 2002 Date Signature

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038 Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

RTIFICATE OF MAIL plicant(s): Aaron Bond	LING BY "EXPRESS MAIL' et al.	' (37 CFR 1.10)	Docket No. TNT-100US
Serial No.	Filing Date	Examiner	Group Art Unit
To Be Assigned	Herewith		
ECTROABSORPTION	FABRICATING A MONOLITHIC MODULATOR	EXPAINDED BEAIVI MOL)C
I hereby certify that the fol			
Utility Trans. (1); Fee Ti Assignment (2 pgs.); ID	rans. (1); Spec. (28 pgs.); Drav S (2 pgs.); 1449; Copies of cit	wings (17 sheets); Decl/PC ed references; Check; Pos)A (3 pgs.); 1595; tcard
	(Identify type of c	orrespondence)	
	- United Otates Deetal Coming ST	Mail Dook Office to Ad	dragaga" gandar 27
CFR 1.10 in an envelope	e United States Postal Service "E addressed to: ner for Patents, Washington, D.C		
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	. 20231 on January 25, 2002	
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	. 20231 on January 25, 2002 Kathleen Libby	
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	Eathleen Libby (Typed or Printed Name of Po	erson Mailing Correspondence
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	Eathleen Libby (Typed or Printed Name of Po	!
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	20231 on January 25, 2002 Kathleen Libby (Typed or Printed Name of Potential Name of N	erson Mailing Correspondence
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	EL 743 541 299 US	erson Mailing Correspondence
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	EL 743 541 299 US	erson Mailing Correspondence Mailing Correspondence Mailing Correspondence
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	EL 743 541 299 US	erson Mailing Correspondence Mailing Correspondence Mailing Correspondence
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	Kathleen Libby (Typed or Printed Name of Possing Signature of Person Name of Pers	erson Mailing Correspondence Mailing Correspondence Mailing Correspondence
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	Kathleen Libby (Typed or Printed Name of Possing Signature of Person Name of Pers	erson Mailing Correspondence Mailing Correspondence Mailing Correspondence
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	Kathleen Libby (Typed or Printed Name of Possing Signature of Person Name of Pers	erson Mailing Correspondence Mailing Correspondence Mailing Correspondence
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	Kathleen Libby (Typed or Printed Name of Possing Signature of Person Name of Pers	erson Mailing Correspondence Mailing Correspondence Mailing Correspondence
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	Kathleen Libby (Typed or Printed Name of Possing Signature of Person Name of Pers	erson Mailing Correspondence Mailing Correspondence Mailing Correspondence
CFR 1.10 in an envelope	addressed to: ner for Patents, Washington, D.C	Kathleen Libby (Typed or Printed Name of Possing Signature of Person Name of Pers	erson Mailing Correspondence Mailing Correspondence Mailing Correspondence